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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/655,659		09/06/2000	Alex Radulovic	15095.3	8979	
22913	7590	04/27/2006		EXAMINER		
WORKMA			FERRIS, DERRICK W			
•	(F/K/A WORKMAN NYDEGGER & SEELEY) 60 EAST SOUTH TEMPLE				PAPER NUMBER	
1000 EAGI	E GATE	TOWER		2616 DATE MAILED: 04/27/2006		
SALT LAK	E CITY,	UT 84111				

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
Office Action Sugar-	09/655,659	RADULOVIC, ALEX	
Office Action Summary	Examiner	Art Unit	
	Derrick W. Ferris	2616	·
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v. - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on <u>01 M</u>	larch 2006		
· <u> </u>	action is non-final.		
3) Since this application is in condition for allowar		osecution as to the merits is	
closed in accordance with the practice under E			
Disposition of Claims	ე		
4) Claim(s) <u>1-16,18-33 and 35-41</u> is/are pending	in the application		
4a) Of the above claim(s) is/are withdraw			
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1-16,18-33 and 35-41</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers	•		
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9)☐ The specification is objected to by the Examine 10)☐ The drawing(s) filed on is/are: a)☐ acc		Fuaminas	•
Applicant may not request that any objection to the	• •	` '	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex		- · · · · · · · · · · · · · · · · · · ·	-
	diffilier. Note the attached Office	ACTION OF TOTAL PTO-152.	
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau 	s have been received. s have been received in Applicati rity documents have been receive	ion No	
* See the attached detailed Office action for a list	of the certified copies not receive	ed.	
		·	
Attachment(s)			•
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)	
2)	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)	

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DETAILED ACTION

Response to Arguments

- This Office action is in response to applicant's paper filed 3/1/2006. Claims 1-16, 18-33,
 35-41 as amended are still in consideration for this application.
- 2. Examiner withdraws the claim objection(s). Examiner thanks applicant for making the necessary corrections.
- 3. Examiner withdraws the 112-first paragraph rejection(s) since applicant canceled the proposed claim at issue.
- Examiner does **not withdraw** the obviousness rejection to *Korpi* in view of *Thom* and *Pirot* and corresponding obviousness rejections. The following comments fully address applicant's arguments with respect to the rejection. Applicant's arguments filed 3/1/2006 have been fully considered but they are not persuasive. In particular, very careful consideration was placed in reviewing the *Pirot* reference. With respect to a CAS, a CAS is taught in combination where with respect to a CDR, a CAS is taught by *Pirot* as shown e.g., as box 12 in figure 1 and with respect to service management, customer care and billing, and a media gateway. Specifically, at issue are the further amended claim limitations in the independent claim in addition to the further definition of a called detailed record which is not further recited in the claim(s). First, the examiner respectfully disagrees with applicant that billing records are not a form of called detailed record. In particular, careful review of figure 5 and column 14, lines 22-44 show that call and session tickets are received from the network access servers and in the call detail session files 214. These tickets are then inserted in records (emphasis records at column 14, line 35) in the RDMBS via the accounting procedures. As shown in figure 5, the RDBMS

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rejection is maintained.

202 further includes billing information (i.e., billing records). Thus billing records are a form of CDR. As such, the further claims as amended are taught by *Pirot*. In particular, *Pirot* teaches the step of the central arbitration server generating a call detail record for the service request and populating one or more called detail records by default as the information that is stored in RDBMS 202 without additional fields. See e.g., column 12, lines 21 – column 13, line 54. In particular, the billing parameters as taught by *Pirot* are the generic fields as further recited in the preamble. With respect to the step of a central arbitration server allowing an application corresponding to the requested service to extend the one or more called detailed record fields known to the central arbitration server by adding at least one called detailed record field defined by the application in order to allow the application to add information on a per call basis is taught as the adding customer fields, see e.g., column 13, lines 37-43. In particular, the operator can add customer fields to the database to store to store and manage additional data. As such, the database is RDBMS 202, as shown in figure 5, which contains records, such as billing records, which are CDR such that the records are on a per call basis (i.e., based on a session). Hence

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Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-4, 6, and 9-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over "Supplementary Services in the H.323 IP Telephony Network" to Korpi et al. ("Korpi") in view

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of "H.323: The Multimedia Communications Standard for Local Area Networks" to *Thom* and U.S. Patent No. 6,856,676 B1 to *Pirot et al.* ("*Pirot*").

As to **claim 1**, *Korpi* discloses a control path connection on a network layer between individual components attached to the dispersed networks (e.g., applicant's CE 50) and at least one central arbitration server (e.g., applicant's CAS 40) as shown in figure 1 on page 119. In particular, a fax/voice gateway is an example of an individual component (i.e., applicant's CE 50) and Gatekeeper Y/Router is an example of a central arbitration server (i.e., in reference to applicant's specification on page 17, lines 1-2). In addition, a step of initiating a data path connection between the individual components designated by the service request is also shown in figure 1. Also shown in the figure is a further step of receiving a "service request" using a reasonable but broad interpretation of "service request". In addition, as H.323 runs on top of IP examiner notes IP as a network layer.

Korpi is silent or deficient to the further limitation of the step initiating a service level layer to supply the requested service.

Thom teaches the above-mentioned further limitation in figure 4 on page 55.

Examiner notes that it would have been obvious to one skilled in the art prior to applicant's invention to include the further limitation of the step initiating a service level layer to supply the requested service. In particular, the *Korpi* reference would be modified to disclose initiating a service layer request based on the gatekeeper as shown in figure 4. The suggestion or motivation for doing so would have been obvious since both reference disclose setting up a call signal in general, and for H.323 in particular.

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Korpi and Thom are also further silent or deficient to the limitation(s) of the step of the central arbitration server populating one or more call detail record fields by default, and the step of the central arbitration server allowing an application corresponding to the requested service to extend the one or more call detail record fields known to the central arbitration server by adding at least one call detail record field defined by the application. In particular, Korpi only teaches that the gatekeeper (i.e., applicant's CAS) handles accounting, see e.g., left-hand column on page 118, but does not describe how billing is performed.

Pirot teaches the above limitation(s) where the Media Gateway Control 12 (see figure 1) acts as a gatekeeper or CAS that interfaces with gateway devices (i.e., CE), see e.g., column 1, lines 56-57 of Pirot. In particular, the Media Gateway Control 12 contains Service Management and Provisioning functionality 52 which is used to alter and update billing fields, see e.g., column 7, line 59 – column 8, line 11 and column 11, lines 16-20 of Pirot. Specifically, operators, clients, or owners can modify "subscriber parameters" or "host parameters" where subscriber parameters and host parameters include e.g., billing information, see e.g., column 12, lines 45-60 and column 13, lines 25-35 of Pirot using either the subscriber management system or host management system respectively. Thus operators, clients or owners (i.e., an application as claimed) can add and populate fields to the database, see e.g., column 13, lines 1-53 of Pirot. Thus by modifying/adding the fields in the database the call detail records are extended. These fields are further populated by the billing system to generate billing information.

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Thus the examiner proposes to modify *Korpi* and *Thom* to further clarify how a billing system is implemented as is known in the art prior to applicant's invention.

Hence examiner notes that the above limitation(s) would have been obvious to one skilled in the art prior to applicants to invention. In particular, one skilled in the art would have been motivated to make the above modification for the purpose of control and manage voice and data services. As such, *Pirot* teaches the above motivation at e.g., column 1, lines 48-50. Examiner also notes a reasonable expectation of success since the Media Gateway Controller 12 works with H.323 as taught e.g., by both *Korpi* and *Thom*.

As to claim 2, see e.g., at least page 118 left-hand column of Korpi.

As to claim 3, see e.g., at least page 118 left-hand column with respect to gatekeeper of *Korpi*.

As to claim 4, see e.g., page 124, right-hand column.

As to claim 6, see e.g., figure 4 on page 55 of Thom.

As to claims 9-11, see e.g., figure 4 on page 55 of *Thom*.

As to claim 12, see e.g., figure 5 on page 55 of Thom.

As to claim 13, see e.g., figure 5 on page 55 of *Thom* and left-hand column of page 119 of *Korpi*.

7. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over "Supplementary Services in the H.323 IP Telephony Network" to *Korpi et al.* ("*Korpi*") in view of "H.323: The Multimedia Communications Standard for Local Area Networks" to *Thom* and U.S. Patent No. 6,856,676 B1 to *Pirot et al.* ("*Pirot*") and in further view of U.S. Patent No. 6,529,499 B1 to *Doshi et al.* ("*Doshi*") and U.S. Patent No. 6,504,838 B1 to *Kwan*.

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As to claim 5, for types of data see e.g., page 52, left-hand column of *Thom*, and page 118, left-hand column of *Korpi*. *Korpi*, *Thom* and *Pirot* are silent to the further limitation of modem data and silence/background noises. Examiner notes that it would have been obvious to one skilled in the art prior to applicant's invention to include modem data and silence/background noises. In particular, one skilled in the art would be motivated to include modem data and silence/background noises as part of transporting voice in general since voice contains periods of silence and background noises, and modem data is transported over a voice (PSTN) link. (Examiner notes applicant only claims and supports that such information is possible to transport on a data path.) As such, *Doshi* cures the above-cited deficiency by disclosing that it is possible to transport silence/background information over an H.323/SIP network (e.g., see column 3, lines 1-42). As such, *Kwan* cures the above-cited deficiency by disclosing that it is possible to transport modem information over an H.323 network (e.g., figure 5; column 10, lines 5-24).

8. Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over "Supplementary Services in the H.323 IP Telephony Network" to *Korpi et al.* ("*Korpi*") in view of "H.323: The Multimedia Communications Standard for Local Area Networks" to *Thom* and U.S. Patent No. 6,856,676 B1 to *Pirot et al.* ("*Pirot*") and in further view of U.S. Patent No. 6,519,249 B1 to *Bennefeld et al.* ("*Bennefeld*").

As to claim 7, Korpi, Thom and Pirot are silent to the further limitation of recoding and monitoring the call control messages (i.e., billing information). Although Korpi does disclose that the gatekeeper supports accounting (e.g., see left-hand column

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on page 118), *Korpi* may be silent to monitoring and storing the call control messages. Examiner notes that it would have been obvious to one skilled in the art prior to applicant's invention to include recoding and monitoring the call control messages. In particular, one skilled in the art would be motivated to record and monitor call detail records for the purpose of generating revenue for data on a network. As such, *Bennefeld* cures the above-cited deficiency by disclosing recording and monitoring billing information. In particular, *Bennefeld* discloses monitoring and recording with respect to a gatekeeper on an H.323 network (e.g., see at least column 1, lines 60-67).

As to **claim 8**, *Korpi*, *Thom* and *Pirot* are silent to the further limitation of optimizing routing resources using at least, least cost routing, failure bypass, load balancing, and class or service. In particular, *Thom* teaches that QoS is generally not supported in H.323 (e.g., see page 56, left-hand column). Examiner notes that it would have been obvious to one skilled in the art prior to applicant's invention to optimize routing resources using at least, least cost routing, failure bypass, load balancing, and class or service. In particular, one skilled in the art would be motivated to optimize a route based on the dynamic environment of a network. As such, *Bennefeld* cures the above-cited deficiency by disclosing that routes can be optimized by at least load balancing for a dynamic network (e.g., see at least column 1, lines 60-67; column 3, lines 12-26).

9. Claims 14, 24, 26, and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over "Supplementary Services in the H.323 IP Telephony Network" to *Korpi et al.* ("*Korpi*") in view of "H.323: The Multimedia Communications Standard for Local Area Networks" to *Thom*

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and U.S. Patent No. 6,856,676 B1 to *Pirot et al.* ("*Pirot*") and in further view of U.S. Patent Application 2001/0046234 A1 to *Agrawal et al.* ("*Agrawal*") and "RFC 2806 – URLS for Telephone Calls" to *Vaha-Sipila*.

As to claim 14 Korpi, Thom and Pirot are silent to the further limitation of using a (text) label. In particular, since Korpi and Thom teach using H.323, Korpi and Thom teach using binary encoding instead of a (text) label (e.g., see figure 1 of Agrawal). Examiner notes that it would have been obvious to one skilled in the art prior to applicant's invention to use labels since labels are supported for a SIP protocol. In particular, one would be motivated to use labels to communicate with at least a SIP network since a SIP protocol communicates using text labels. As support and motivation, Agrawal discloses using labels. In particular, as shown in figure 5 an IWF 100 function is capable of operating over both SIP and H.323. Thus both properties of SIP and H.323 are further taught by the reference (e.g., the reference teaches using both binary for H.323 and text labels for SIP when communicating to a gatekeeper/server). As an additional reference, Vaha-Sipila further builds on the concept by disclosing specific labels for a SIP network including telephone, fax, and voice information. Thus Vaha-Sipila further teaches the limitation of varying a call detail record based in part upon the data type (text) label.

As to claims 24 and 26, see e.g., the combined reasoning for the rejections for claims 1 and 14.

As to claims 27, see figure 1 of Korpi.

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10. Claims 15, 16, 18-23, 31-33 and 35-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over "Supplementary Services in the H.323 IP Telephony Network" to Korpi et al. ("Korpi") in view of "H.323: The Multimedia Communications Standard for Local Area Networks" to Thom and U.S. Patent No. 6,856,676 B1 to Pirot et al. ("Pirot") and in further view of "C6x Solutions for Voice over IP Gateway" to Cassing.

As to **claim 15**, *Korpi, Thom*, and *Pirot* are silent to the further limitation using a digital signal processor on receiving signals to generate encoded signals at the gateway for a control path. In particular, *Thom* discloses translating call signaling but is silent or deficient to using a DSP (e.g., see page 54, left-hand column). Examiner notes that it would have been obvious to one skilled in the art prior to applicant's invention to use a digital signal processor on receiving signals to generate encoded signals at the gateway for a control path. One skilled in the art would be motivated to use a DSP in the gateway for voice compression such as G.723.1. *Cassing* cures the above-cited deficiency by disclosing a DSP in a VoIP gateway such as an H.323 gateway (e.g., see page 76 Section 3.1). Thus *Cassing* provides support and motivation for using a digital signal processor on receiving signals to generate encoded signals at the gateway for a control path.

As to claim 16, see e.g., figure 1 on page 119 of Korpi.

As to claims 18 and 19, see figure 1 of *Korpi*. In particular, the C4P is e.g., taught in figure 1 of *Kopi* as a Fax/voice gateway.

As to claim 20, see similar rejection to claim 14 where examiner notes a reasonable but broad interpretation of IMCP to be either SIP or H.323 (i.e., applicant

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does not claim specific attributes of IMCP such as a text label running on top of or at a network layer).

As to claim 21, see e.g., figure 4 on page 55 of Thom.

As to claim 22, see e.g., figure 1 on page 119 of Korpi.

As to claim 23, see e.g., figure 4 on page 55 of Thom.

As to claim 31, the C4P is e.g., taught in figure 1 of Kopi as a Fax/voice gateway.

As to claim 32, see e.g., figure 1 of *Kopi* where a C4P is the router in Domain Y. The control layer is the Fax/voice gateway in Domain Y. The one or more user terminals are shown in the figure as connected as part of the PSTN or GSM.

As to **claim 33**, see e.g., figure 1 of *Kopi* where a C4P is the router in Domain Y. The C4 is the Fax/voice gateway in Domain Y. The one or more user terminals are shown in the figure as connected as part of the PSTN or GSM.

As to claim 35-39, the CAS is the gatekeeper e.g., in either Domain X or Domain Y of *Kopi*. The CE device is the gateway, e.g., the router in either Domain X or Domain Y of *Kopi*. The C4 is the Fax/voice gateway e.g., in Domain Y. The C4P is e.g., the router in Domain Y. The user terminals are either the H.323 terminals or the terminals shown attached in the circuit-switched network in figure 1.

As to claims 40-41, the CAS is the gatekeeper e.g., in either Domain X or Domain Y of *Kopi*. The gatekeeper is responsible for routing the call such that the path is re-directed, see e.g., the second model on page 55 of *Thom*. Since the call is routed there is no service disruption to the call.

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Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over "Supplementary Services in the H.323 IP Telephony Network" to *Korpi et al.* ("*Korpi*") in view of "H.323: The Multimedia Communications Standard for Local Area Networks" to *Thom* and U.S. Patent No. 6,856,676 B1 to *Pirot et al.* ("*Pirot*") and in further view of U.S. Patent Application 2001/0046234 A1 to *Agrawal et al.* ("*Agrawal*"), "RFC 2806 – URLS for Telephone Calls" to *Vaha-Sipila*, and U.S. Patent No. 5,471,470A to *Sharma et al.* ("*Sharma*").

As to claim 25, Korpi, Thom, Pirot, Agrawal, and Vaha-Sipila are silent to the further limitation of the specific structure of a telephone which includes at least a speaker and a microphone. Examiner notes that it would have been obvious to one skilled in the art prior to applicant's invention to use a telephone which includes at least a speaker and a microphone. In particular, one skilled in the art would be motivated to use a microphone to talk into a telephone and use a speaker to listen to an incoming call as is known in the art. Sharma provides further support and motivation by disclosing in figure 3 a telephone (shown as 20 in figure 1) that has at least a microphone 303 and speaker 304 (e.g., see column 8).

Claims 28-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over "Supplementary Services in the H.323 IP Telephony Network" to *Korpi et al.* ("*Korpi*") in view of "H.323: The Multimedia Communications Standard for Local Area Networks" to *Thom* and U.S. Patent No. 6,856,676 B1 to *Pirot et al.* ("*Pirot*") and in further view of U.S. Patent No. 6,918,034 B1 to *Sengodan et al.* ("*Sengodan*").

As to claims 28-30, *Korpi*, *Thom*, and *Pirot* are silent to aggregating data payloads from one or more originating devices to the packet. In particular, *Korpi* teaches

supplying signaling information about one or more packet destinations in the form of control signaling as mentioned in the rejection for claim 12 (as well as for the other corresponding signaling information). *Korpi* also teaches using RTP, see e.g., left-hand column on page 119, but is silent or deficient to multiplexing RTP (i.e., aggregating data payloads) which is well known in the art.

Sengodan teaches the above concept in e.g., figure 3 with respect to mini-packets, see e.g., column 6, lines 37-40.

The examiner proposes to modify *Korpi, Thom*, and *Pirot* by clarifying that multiplexing RTP packets is well known in the art.

Hence examiner notes that it would have been obvious to one skilled in the art prior to applicant's invention to include the above limitation. In particular, one skilled in the art would have been motivated to perform the above modification for the purpose of relieving congestion. As such, *Sengodan* teaches the above motivation at e.g., column 6, lines 6-15. Examiner also notes a reasonable expectation of success since both references teach RTP.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Derrick W. Ferris whose telephone number is (571) 272-3123. The examiner can normally be reached on M-F 9 A.M. - 4:30 P.M. E.S.T.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on (571)272-3134. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Derrick W. Ferris

Examiner

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BERRICK FERRIS

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